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(54) Title: CARTILAGE IMPLANT PLUG WITH FIBRIN GLUE AND METHOD FOR IMPLANTATION

(57) Abstract: The invention is directed toward a cartilage repair assembly comprising a shaped structure of subchondral bone with an integral overlying cartilage cap which is treated to remove cellular debris and proteoglycans and milled cartilage in a bioabsorbable carrier. The shaped structure is dimensioned to fit in a drilled bore in a cartilage defect area so that said shaped bone and cartilage cap when centered in the bore does not engage the side wall of the bore and is positioned from the side wall of the bone a distance ranging from 10 microns to 1000 microns and is surrounded by milled cartilage and a fibrin thrombin glue. A method for inserting the assembly into a cartilage defect area is disclosed.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/36878

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 35/34( 2006.01)

USPC: 424/548

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/548

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,782,835 (HART et al) 21 July 1998 (21.07.1998), abstract, summary of the invention, columns 7-10, in particular.	1-20
A	US 6,852,125 B2 (SIMON et al) 08 February 2005 (08.02.2005), abstract, summary of the invention, columns 13-16, in particular.	1-20
A	US 6,488,033 B1 (CERUNDOLO) 03 December 2002 (03.12.2002), abstract, columns 1-4, in particular.	1-20
A	US 5,624,463 (STONE et al) 29 April 1997 (29.04.1997), abstract and summary of the invention.	1-20
A	US 6,110,209 (STONE) 29 August 2000 (29.08.2000), abstract, summary of the invention, and columns 3-4, in particular.	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Continuation of B. FIELDS SEARCHED Item 3:

EAST:

USPAT, US-PGPUB, USOCR, JPO, EPO, DERWENT

STN:

CAPLUS, BIOSIS, MEDLINE, CONFSCI, PCTFULL, EMBASE

SEARCH STRATEGIES:

cartilag? articular or hyalin? or fibrocartilag?

osteocond? or bone or cartilag? and plug

mill? or minc? cartilag?

fibrin glue? or thrombin and fibrinog?

demineral? bone and growth factor? and chondrocyt? and cell?

drill? and bore or hole and cylind? and debrid?